# Alex Feinberg

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## SKILLS

React.js, Redux, Express, NodeJs, Sequelize, SQLAlchemy, Flask, JavaScript (ES6+), Python, Redis, Celery, RESTful APIs, SQL, SQLite, Git, Docker, HTML5, CSS3, AWS S3, Websockets, Web Scraping, MongoDB

## PROJECTS

**Transmit** Live Site |Github

*A full-stack web application clone of Slack built using Python (Flask, SQLAlchemy), React.js, Redux, HTML5, CSS3*

- Utilized Python and JavaScript implementations of Socket.io to enable live messaging functionality over a websocket server
- Developed a RESTful API using Flask to enable full CRUD functionality for core Slack features including: Workspaces, Channels, Messages, Direct Messages, and User Authentication
- Constructed SQL table models and relationships using Python's SQLAlchemy ORM for seamless development and database version control
- Integrated Redux for application-wide state management and caching previously loaded data ultimately decreasing loading time by 50%
- Styled React components using a multitude of CSS features including both Flexbox and CSS Grid

**Median** Live Site | Github

*A full-stack web application clone of Medium built using Python (Flask, SQLAlchemy), React.js, Redux, HTML5, CSS3*

- Coordinated development efforts with a team of three engineers by planning daily development meetings, concise code explanations, and clear documentation allowing for seamless group work flow
- Developed a RESTful API to enable full CRUD functionality of core Medium features including Stories, Comments, Likes, Followings, and User Authentication
- Utilized Python's SQLAlchemy ORM to create SQL table models and relationships including a self-referential relationship to allow followers and following functionality
- Recommended and implemented a modularized strategy using React.js to develop reusable "story feed" and modal components to display articles, followers, and followings ultimately reducing development time by dozens of hours

**Feinbnb** Live Site | Github

*A full-stack web application clone of Airbnb using Express, NodeJS, Sequelize, React.js, Redux, HTMl5, and CSS3*

- Leveraged NodeJS and Express routing engine for server-side JavaScript to develop backend infrastructure
- Implemented Sequelize ORM to seamlessly create Database models, relationships, and to allow for version control ensuring database integrity
- Created backend tests to ensure proper API endpoint functionality and error handling through Postman
- Leveraged Redux in conjunction with React hooks to allow for modularized, reusable components

## EXPERIENCE

**Software Engineering Intern,** Triton Research Jun 2021 - Aug 2021

- Extracted data from websites utilizing API's and python frameworks such as: Scrapy, Beautiful Soup, Requests, and Selenium
- Developed object-oriented programs to automate data extraction, normalization, and archiving of data in cloud platform for future analysis currently in production use
- Utilized TypeScript, React, and Redux to create a UI platform to display extracted data used by Corporate Finance divisions, Hedge Funds, and Private Equity firms
- Performed data cleansing and data engineering tasks using tools such as pandas and numPy
- Implemented various algorithmic approaches and determined appropriate data structures to collect various insights from extracted data allowing for expanded functionality for end-users
- Leveraged open-sourced software development tools such as Git and developed and deployed on AWS cloud platform (S3, EC2)

**Marketing Intern,** *Big Fish Results*, Summers 2018, 2019

- Managed online reputation and presence for clients across several industries including Finance (Hedge Funds).
- Conducted and presented market research for content syndication and competitive intelligence to launch new products.

## EDUCATION

**App Academy -** Immersive software development course with focus on full stack web development (Winter 2022)

**Marist College -** *BS - Major: Finance, Minor: Data Science, GPA: 3.7/4.0, Honors: Magna Cum Laude* (Winter 2021)